

EXECUTIVE SUMMARY

Prepared September 17, 1991

Mine Name: <u>Keigley Quarry</u>	I.D. No: <u>M/049/001</u>
Operator: <u>Geneva Steel</u>	County: <u>Utah</u>
<u>RFD #1, Box 20-B</u>	New/Existing: <u>Existing</u>
<u>Santaquin, Utah 84655</u>	Mineral Ownership: <u>Fee</u>
	Surface Ownership: <u>Fee</u>
Telephone: <u>(801) 564-2532</u>	Lease No.(s): <u>N/A</u>
Contact Person: <u>Roy Benson</u>	Permit Term: <u>5 Years</u>

Life of Mine: 50 years

Legal Description: Sections 15, 22, 23, 26, 27, T9S, R1E, SLBM

Mineral(s) to be Mined: Limestone and Dolomite

Mining Methods: Open pit; drilling and blasting, truck and shovel

Acres to be Disturbed: 400

Present Land Use: Wildlife habitat; limited hunting of deer and chuckar

Postmining Land Use: Same

Variances from Reclamation Standards (Rule R613) Granted: R613-004-111 (9)

Impoundments: R613-004-111 (7) Highwalls

Soils and Geology:

Soil Description: Depth of existing topsoil is less than 2 inches. Operator will add additional 10 - 12 inches as needed to support vegetation.

pH: 7 - 8

Special Handling Problems: Operator will haul in topsoil from adjacent property. Dredged silt is also available from nearby irrigation canals.

Geology Description: Several formations of dolomitic limestone. Bedding planes are on 60° dip. Limestone is recoverable on the northern face of the pit and dolomite is mined in the southern face.

Hydrology:

Ground Water Description: Groundwater stratas lie 200; below pit.

Surface Water Description: Surface water is limited to storm activity. This water flows into pit and evaporates, and/or seeps into the pit.

Water Monitoring Plan: N/A

Ecology:

Vegetation Type(s); Dominant Species: Big Sagebrush, Cliffrose, Rabbitbrush, and Bluebunch wheatgrass.

Percent Surrounding Vegetative Cover: 20%

Wildlife Concerns: N/A

Surface Facilities: Primary crusher house, secondary crusher house, screening and train loadout station, rock dust mill, bathhouse, shop, office/lab, warehouse and storage sheds.

Mining and Reclamation Plan Summary:

During Operations:

1. Due to the improved quality of Geneva's iron ore supply, the Keigley Quarry can now supply the mill with limestone and dolomite containing silica amounts in excess of 2.5% SiO₂. Keigley can now mix 75% overburden material, previously considered waste, with 25% pit material to supply Geneva.
2. Using this overburden, the anticipated life-of-mine could be 50 years at present production levels.
3. Reclamation efforts will begin as these overburden piles are used. These waste disposal areas will be recontoured and topsoiled.

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After Operations: -

- 1 The plant site buildings will be removed and the foundations buried.
2. The plant site, borrow area, and waste disposal areas will be scarified, seeded and fertilized.

Surety:

Amount: \$505,000 (1994 dollars)

Form: Surety Bond (St. Paul Fire & Marine Insurance Co)

Renewable Term: 5 years

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Preliminary
Reclamation Cost Estimate
Keigley Quarry, M/049/001

<u>Item</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
I. Building Removal			
a. Salvage metal bldgs. and equipment			
b. Demolish block bldgs. and bury foundations		Lump Sum	\$20,000
II. Regrading and Contouring, D-9 with ripper			
a. Waste dumps	480 hours	\$175/hr.	\$84,000
b. Borrow Area	40 hours	\$175/hr.	\$7,000
III. Topsoiling			
Haul and spread soil	145,000 yds.	\$1.50/yd.	\$217,500
IV. Revegetation			
a. Scarify, D-9 w/ripper	200 hrs.	\$175/hr	\$35,000
b. Broadcast seed & fertilize, farm tractor w/2 laborers	200 hrs.	\$75/hr	\$15,000
c. Seed	202 acres	\$104.75/ac.	\$21,200
d. Fertilizer	202 acres	\$40.00/ac.	<u>\$8,100</u>
	Subtotal		\$407,800
V.	10% contingency		<u>\$40,800</u>
	Total cost in 1988 Dollars		\$448,600
VI.	Escalation Factor 2.3% inflation per year		
	Total cost in 1993 Dollars		\$502,600
	Total cost in 2007 Dollars		\$706,900